88888888888 888888888888 888888888888	В	AAAAAAA AAAAAAA AAAAAAA	4	\$	RRRR	RRRRRRR RRRRRRR RRRRRRRR		
888	BBB	ÄÄÄ	AAA	\$\$\$ \$\$\$	RRR	RRR RRR		LLL
888	888	AAA	AAA	SSS	RRR	RRR	ΪΪΪ	
888	888	AAA	AAA	SSS	RRR	RRR	İİİ	
BB B	888	AAA	AAA	ŠŠŠ	RRR	RRR	ήήή	LLL
888	BBB	AAA	AAA	SSS	RRR	RRR	ŤŤŤ	iii
8888888888	В	AAA	AAA	SSSSSSSS		RRRRRRR	ŤŤŤ	ili
8888888888		AAA	AAA	ŠŠŠŠŠŠŠŠŠ		RRRRRRR	ŤŤŤ	iii
8888888888		AAA	AAA	SSSSSSSS		RRRRRRR	TTT	ΙΙΙ
BBB	888			\$\$\$	RRR	RRR	TTT	LLL
888	888			ŞŞŞ	RRR	RRR	ŢŢŢ	LLL
888	BBB	AAAAAAAAA		SSS	RRR	RRR	ŢŢŢ	LLL
88 8	BBB	AAA	AAA	SSS	RRR	RRR	III	řřř
888	888	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	řřř
888	BBB	AAA	AAA	222	RRR	RRR	ŢŢŢ	LLL
88888888888888888888888888888888888888		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	ŢŢŢ	rrrrrrrrrrr
BBBBBBBBBBB		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	!!!	
00000000000	0	AAA	AAA	SSSSSSSSSS	RRR	RRR	TTT	

BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	NN NN NN NN NN NN NNNN NN NNNN NN NN NN		000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	KK K KKKKKK KK K	K K K K K K K K K K K K K K K K K K K	•
		\$							

• • • •

G 4

1 !<BLr/PAGE>

```
. Basic UNLOCK construct ! File: BASUNLOCK.B32
                                MODULE BASSUNLOCK (
                   0002
                                                          IDENT = '1-002'
                                                          ) =
                   0004
                                BEGIN
                   0005
                   0006
                   0007
                                      COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.
                   8000
                   0009
10
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                   0011
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                                      TRANSFERRED.
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                                      THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
                   0020
0021
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                                .
                                      CORPORATION.
                   0022
                                      DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
                                .
                   0025
                   0026
                   2028
                   0029
                   0030
31
                   0031
                                  FACILITY:
32
33
                   0032
                                             Basic support library - user callable
                   0033
34
35
                   0034
                                   ABSTRACT:
                   0035
                                             This module is the UPI level of the Basic UNLOCK construct.
36
                   0036
                                             This module will setup the I/O data base for the LUN and go directly to
37
                   0037
                                             the REC level.
38
                   0038
39
                   0039
40
                   0040
                                   ENVIRONMENT:
41
                   0041
                                             User access mode - AST reentrant.
42
                   0042
                                   AUTHOR: Donald G. Petersen, CREATION DATE: 28-Feb-79
44
                   0044
                   0045
                                   MODIFIED BY:
46
                   0046
                                DGP, 28-feb-79: VERSION 01
1-001 - original. DGP 28-feb-79
1-002 - Set up ISB$A_USER_FP. JBS 25-JUL-1979
                   0047
48
                   0048
49
                   0049
50
                   0050
51
                   0051
```

```
0053
0054
0055
 54
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60
                               SWITCHES:
                 0056
0057
0058
0059
0060
                            SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                            LINKAGES
 61
62
63
64
65
                 0061
                 0062
                            REQUIRE 'RTLIN: OTSLNK':
                                                                                              ! Define all linkages
                 0492
0493
 66
67
68
69
70
                 0494
                            ! TABLE OF CONTENTS:
                 0496
0497
                            FORWARD ROUTINE BASSUNLOCK : NOVALUE;
 71
                 0498
                                                                                              ! UPI level Sequential UNLOCK
 72
73
74
75
                  0499
                 0500
                 0501
                               INCLUDE FILES:
                 0502
 76
77
                 0503
                 0504
                            REQUIRE 'RTLML:OTSISB';
                                                                                              ! ISB definitions
 78
79
                 0672
                 0673
                            REQUIRE 'RTLML:OTSLUB':
                                                                                              ! LUB definitions
8012334567890123456789012345
110011005
                 0813
                 0814
                            REQUIRE 'RTLIN:RTLPSECT':
                                                                                              ! Define DECLARE_PSECTS macro
                 0909
                 0910
                            LIBRARY 'RTLSTARLE';
                                                                                              ! Starlet system macros
                 0911
                 0912
0913
                               MACROS:
                 0914
                 0915
0916
                                       NONE
                 0917
                               EQUATED SYMBOLS:
                 0918
                                       NONE
                 0919
                 0920
                               PSECT DECLARATIONS:
                            DECLARE_PSECTS (BAS);
                               OWN STORAGE:
                 0926
0927
0928
0929
0930
0931
                                       NONE
                               EXTERNAL REFERENCES:
                            EXTERNAL ROUTINE
106
                                                                                                REC level processing - RMS interface UNLOCK
                                  BAS$$REC_UNL : JSB_RECO NOVALUE,
                  0934
                                  BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE, BAS$$CB_POP : JSB_CB_POP NOVALUE, BAS$$STOP_10 : NOVALUE;
                                                                                              Load register CCB
Done with register CCB
Signal fatal BASIC I/O error
108
                  0935
109
                  0936
                  0937
110
```

Page 3 (2)

```
0946
122345671289013334567137
                    0947
                            1
                    0948
                    0949
                    0950
                           1
                    0951
                   0952
                    0954
                    0955
                    0956
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                    0991
                    0992
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                    0993
                    0994
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                    0995
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                    0996
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                    0997
172
                    0998
                    0999
174
                    1000
175
                    1001
```

```
GLOBAL ROUTINE BASSUNLOCK (
                                                    ! UNLOCK sequential
                                                   ! logical unit number
        UNIT
    ) : NOVALUE =
  FUNCTIONAL DESCRIPTION:
        This routine will set up the I/O data base for this LUN if necessary
         and then go directly to the REC level. When control is returned to
        this routine, it pops the CCB off of the 1/0 system. The actual inter-
         face to RMS is done at the REC level. The current record is unlocked.
  FORMAL PARAMETERS:
        UNIT.rlu.v
                         logical unit number
  IMPLICIT INPUTS:
        NONE
  IMPLICIT OUTPUTS:
        ISB$B_STTM_TYPE
                                  the statement
  COMPLETION CODES:
        NONE
  SIDE EFFECTS:
        NONE
    BEGIN
    BUILTIN
        FP:
    GLOBAL REGISTER
        (CB = K_CCB_REG : REF BLOCK [, BYTE];
    LOCAL
        FMP : REF BLOCK [, BYTE];
    FMP = .FP;
  Allocate the LUB/ISB/RAB for this unit if necessary. Store new (B (con-
  trol block) in OTS$$A_(UR_LUB. Store signed unit number in LUB$W_LUN.
    BASSS(B_PUSH (.UNIT, LUBSK_ILUN_MIN);
(CB [ISBSA_USER_FP] = .FMP [SFS[_SAVE_FP];
! If the channel is not open, give an error message.
    IF ( NOT .C(B [LUB$V_OPENED]) THEN BAS$$STOP_10 (BAS$K_10_CHANOT);
```

```
BASSUNLOCK
                                                                             16-Sep-1984 01:26:13
14-Sep-1984 11:56:44
                                                                                                          VAX-11 BL:55-32 V4.0-742
                                                                                                                                                      Page
1-002
                                                                                                          [BASRTL.SRC]BASUNLOCK.B32:1
                   1003
   178
                   1004
   179
                   1005
                            ! Now that the data base is in place, store the statement type and go
   180
                   1006
                               directly to the REC level.
   181
                   1007
   182
183
                   1008
                                 CCB [ISB$B_STTM_TYPE] = ISB$k_ST_TY_UNL;
                   1009
                                 BASSSREC_UNL ();
   184
                   1010
   185
                   1011
                               Now that the UNLOCK has been done, pop the ((B off the I/O system.
                   1012
   186
   187
                                 BAS$$(B_POP ():
   188
                   1014
                                 END:
                                                                                       !End of BASSUNLOCK
                                                                                         .TITLE
                                                                                                  BASSUNLOCK
                                                                                         . IDENT
                                                                                                   11-0021
                                                                                                   BASSSREC_UNL, BASSSCB_PUSH
BASSSCB_POP, BASSSSTOP_IO
                                                                                         .EXTRN
                                                                                         .EXTRN
                                                                                         .EXTRN
                                                                                                   BAS$K_IO_CHANOT
                                                                                         .PSECT _BAS$CODE,NOWRT, SHR, PIC.2
                                                                  0830 00000
                                                                                          .ENTRY
                                                                                                   BASSUNLOCK, Save R2,R3,R4,R5,R11
                                                                                                                                                           0946
                                                                                                  FP, FMP
#8, R0
UNIT, R2
BAS$$(B_PUSH
12(FMP), -180(CCB)
                                               53
50
52
                                                                5D
                                                                    DO 00002
                                                                                         MOVL
                                                                                                                                                           0991
                                                                80
                                                                     CE
                                                                        00005
                                                                                         MNEGL
                                                                                                                                                           0996
                                                               AC
00
A3
                                                                     DŌ
                                                                        00008
                                                                                         MOVL
                                                   0000000G
                                                                     16
                                                                        00000
                                                                                         JSB
                                               (B
0B
7E
00
                                      FF4C
                                                          00
                                                                     DO
                                                                        00012
                                                                                         MOVL
                                                                                                                                                           0997
                                                                                                  -4(CCB), 1$

#BAS$K_IO_CHANOT, -(SP)

#1, BAS$$$TOP_IO

#42, -143(CCB)

BAS$$REC_UNL
                                                               AB
8f
01
                                                                    E8 00018
9A 0001C
                                                          FC
                                                                                         BLBS
                                                                                                                                                          1002
                                                          00G
                                                                                         MOVZBL
                                 0000000G
                                                                     FB 00020
                                                                                         CALLS
                                                               2A
00
                                      FF71
                                               CB
                                                                     90 00027 15:
                                                                                         MOVB
                                                                                                                                                          1008
                                                  0000000G
                                                                     16 0002C
                                                                                         JSB
                                                                                                                                                          1009
                                                               ÕÕ
                                                  0000000G
                                                                     16 00032
                                                                                         JSB
                                                                                                   BAS$$CB_POP
                                                                                                                                                          1013
                                                                     04 00038
                                                                                         RET
                                                                                                                                                        : 1014
; Routine Size: 57 bytes,
                                    Routine Base: _BAS$CODE + 0000
                   1015 1
   190
                   1016
                          1 END
                                                                                       ! End of module BAS$UNLOCK
   191
   192
                   1018 0 ELUDOM
```

PSECT SUMMARY

Name Bytes Attributes

_BAS\$CODE 57 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASUNLOCK.B32;1

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Library Statistics

File Symbols ----- Pages Processing Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 1 0 581 00:01.2

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASUNLOCK/OBJ=OBJ\$:BASUNLOCK MSRC\$:BASUNLOCK/UPDATE=(ENH\$:BASUNLOCK

: Size. 57 code + 0 data bytes : Run Time: 00:08.0 : tlapsed Time: 00:17.2 : Lines/CPU Min: 7597 : Lexemes/CPU-Min: 45350 : Memory Used: 108 pages : Compilation Complete 0033 AH-BT13A-SE

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